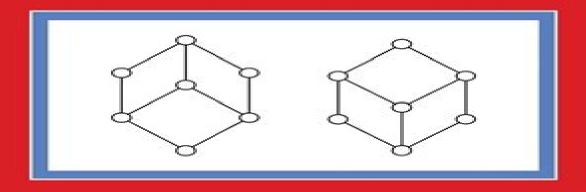
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SEMIMODULAR LATTICES

Theory and Applications

MANFRED STERN



Semimodular Lattices Theory And Applications

Michael Borinsky

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Cellier, Felix Distel, Bernhard Ganter, 2013-05-14 This book constitutes the refereed proceedings of the 11th International Conference on Formal Concept Analysis ICFCA 2013 held in Dresden Germany in May 2013 The 15 regular papers presented in this volume were carefully reviewed and selected from 46 submissions. The papers present current research from a thriving theoretical community and a rapidly expanding range of applications in information and knowledge processing including data visualization and analysis mining knowledge management as well as Web semantics and software engineering In addition the book contains a reprint of the first publication in english describing the seminal stem base construction by Guigues and Duguenne and a position paper pointing out potential future applications of FCA Information Retrieval Sándor Dominich, 2008-04-03 This book takes a unique approach to information retrieval by laying down the foundations for a modern algebra of information retrieval based on lattice theory All major retrieval methods developed so far are described in detail along with Web retrieval algorithms and the author shows that they all can be treated elegantly in a unified formal way using lattice theory as the one basic concept The book s presentation is characterized by an engineering like approach **General Lattice Theory** G. Grätzer, 2012-12-06 In the first half of the nineteenth century George Boole s attempt to formalize propositional logic led to the concept of Boolean algebras While investigating the axiomatics of Boolean algebras at the end of the nineteenth century Charles S Peirce and Ernst Schr der found it useful to introduce the lattice concept Independently Richard Dedekind's research on ideals of algebraic numbers led to the same discov ery In fact Dedekind also introduced modularity a weakened form of distri butivity Although some of the early results of these mathematicians and of Edward V Huntington are very elegant and far from trivial they did not attract the attention of the mathematical community It was Garrett Birkhoff's work in the mid thirties that started the general develop ment of lattice theory In a brilliant series of papers he demonstrated the importance of lattice theory and showed that it provides a unifying framework for hitherto unrelated developments in many mathematical disciplines Birkhoff himself Valere Glivenko Karl Menger John von Neumann Oystein Ore and others had developed enough of this new field for Birkhoff to attempt to sell it to the general mathematical community which he did with astonishing success in the first edition of his Lattice Theory The further development of the subject matter can best be followed by com paring the first second and third editions of his book G Birkhoff 1940 1948 and 1967 Graphs in Perturbation Theory Michael Borinsky, 2018-11-04 This book is the first systematic study of graphical enumeration and the asymptotic algebraic structures in perturbative quantum field theory Starting with an exposition of the Hopf algebra structure of generic graphs it reviews and summarizes the existing literature It then applies this Hopf algebraic structure to the combinatorics of graphical enumeration for the first time and introduces a novel method of asymptotic analysis to answer asymptotic questions This major breakthrough has combinatorial applications far beyond the analysis of graphical enumeration. The book also provides detailed examples for the asymptotics of renormalizable quantum field theories which underlie the Standard Model of particle physics A deeper

analysis of such renormalizable field theories reveals their algebraic lattice structure. The pedagogical presentation allows readers to apply these new methods to other problems making this thesis a future classic for the study of asymptotic problems in quantum fields network theory and far beyond

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